

ABSTRACT

A surface acoustic wave (SAW) filter includes a first SAW resonator, a second SAW resonator connected in series to the first SAW resonator at a first node, a third SAW resonator connected in series to the second SAW resonator at a second node, a fourth SAW resonator connected in series to the third SAW resonator at a third node, a fifth SAW resonator connected between the first node and ground, a sixth SAW resonator connected between the third node and ground, and a first capacitance element connected between the second node and ground. Further, the SAW filter includes a first inductance element connected in series to the fifth SAW resonator, and a second inductance element connected in series to the sixth SAW resonator. This SAW filter has a sharp attenuation at a high frequency of a pass band, thereby widening the pass band and reducing the loss thereof.